

1 BILL NO. S-81-07-27

2 SPECIAL ORDINANCE NO. S-174-81

3
4 AN ORDINANCE approving Change Order
5 Number 26 in connection with the Water
6 Pollution Control Plant Expansion,
7 Division I.

8 BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT
9 WAYNE, INDIANA:

10 SECTION 1. That Change Order Number 26 to Hagerman Con-
11 struction Company and Shambaugh & Sons, Inc. in connection with
12 the Water Pollution Control Plant Expansion, Division I, for:

13 reinforcement for stormwater discharge
14 channels; setting of switchgear relays;
15 to provide new conduit system in lower
16 pipe gallery and relocation of existing
17 conduit; cost of electrical work for re-
18 location of existing three (3) inch PVC
19 water line; and a 120 VAC service and
20 sump pump,

21 in the amount of \$20,256.00, as set out in the specifications,
22 which are on file in the Office of the Board of Public Works
23 and are by reference incorporated herein and made a part hereof,
24 be and the same is in all things ratified, confirmed and ap-
25 proved.

26 SECTION 2. That this Ordinance shall effective from and
27 after its passage and approval by the Mayor.

28 
29 COUNCILMAN

30 APPROVED AS TO FORM AND
31 LEGALITY JULY 10, 1981.

32 
BRUCE O. BOXBERGER, CITY ATTORNEY

Read the first time in full and on motion by Burns, seconded by Eisbart, and duly adopted, read the second time by title and referred to the Committee City of Fort Wayne (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Council Chambers, City-County Building, Fort Wayne, Indiana, on 7-11-81, the 11 day of July, 1981, at 9 o'clock M., E.S.T.

DATE: 7-11-81

Charles W. Westerman
CHARLES W. WESTERMAN
CITY CLERK

Read the third time in full and on motion by Burns, seconded by Eisbart, and duly adopted, placed on its passage. PASSED (LOST) by the following vote:

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>	<u>TO-WIT:</u>
<u>TOTAL VOTES</u>	<u>7</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>BURNS</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>EISBART</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>GIAQUINTA</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>NUCKOLS</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>SCHMIDT, D.</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>SCHMIDT, V.</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>SCHOMBURG</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>STIER</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>TALARICO</u>	<u>✓</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

DATE: 7-28-81

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ZONING MAP) (GENERAL) (ANNEXATION) (SPECIAL) (APPROPRIATION) ORDINANCE (RESOLUTION) No. 2-174-81 on the 28th day of July, 1981.

ATTEST:
Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

(SEAL)
John Nuckols
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 29th day of July, 1981, at the hour of 1:00 o'clock P., E.S.T.

Charles W. Westerman
CHARLES W. WESTERMAN - CITY CLERK

Approved and signed by me this 3rd day of August 1981, at the hour of 11 o'clock A M., E.S.T.

Winfield C. Moses, Jr.
WINFIELD C. MOSES, JR.
MAYOR

BILL NO. S-81-07-27

REPORT OF THE COMMITTEE ON CITY UTILITIES

WE, YOUR COMMITTEE ON City Utilities TO WHOM WAS REFERRED AN
ORDINANCE approving Change Order Number 26 in connection with the
Water Pollution Control Plant Expansion Division I

HAVE HAD SAID ORDINANCE UNDER CONSIDERATION AND BEG LEAVE TO REPORT
BACK TO THE COMMON COUNCIL THAT SAID ORDINANCE DO PASS.

PAUL M. BURNS, CHAIRMAN

VIVIAN G. SCHMIDT, VICE CHAIRMAN

BEN A. EISBART

SAMUEL J. TALARICO

ROY J. SCHOMBURG

CONCURRED IN

DATE 7/28/81 CHARLES W. WESTERMAN, CITY CLERK

Memorandum

To Board of Public Works

Date June 22, 1981

From Philip R. Boller, Director of Water Resources

Subject Change Order #26, Water Pollution Control Plant Expansion Div. I

COPIES TO:

N. Wisler

I recommend Board of Public Works approval of the attached Change Order #26 and ask that the Board expedite this change order by asking Prior Approval from Common Council at their next scheduled meeting June 23, 1981.

Said Change Order is required to provide

- . reinforcement for stormwater discharge channels;
- . setting of switchgear relays
- . provide new conduit system in lower pipe gallery and relocation of existing conduit;
- . cost of electrical work for relocation of existing 3-inch PVC water line;
- . a 120 VAC service and sump pump.

70-216-3

6/18/81

*Comment
7/14/81*

PROJECT Water Quality Control Project OWNER City of Fort Wayne, Indiana

DIVISION/SECTION I - Water Pollution Control Plant Additions

CHANGE ORDER NO. 26

TO: Hagerman-Shambaugh, Joint Bidders
c/o Hagerman Construction Company
510 West Washington Blvd.
P.O. Box 10690
Fort Wayne, Indiana 46853

You are hereby authorized to make the following additions and/or deductions to your contract amount.

	Previous Contract Amount	Increase	Decrease	Net Change (Add)	Revised Contract Amount
TOTAL	\$ <u>22,165,978.39</u>	\$ <u>20,256.00</u>	\$ <u>-0-</u>	\$ <u>20,256.00</u>	\$ <u>22,186,234.39</u>

Description of Change:

Item No. 1 Stormwater Discharge Channel
Reinforcement

Add
\$4,000

Deduct

Furnish all labor and materials to reinforce the joint of the new stormwater effluent channel to the existing stormwater station wet well wall per Drawing C.O. 26-1.

Material	\$2,100
Labor	\$1,380
Overhead	\$ 347
Profit	\$ 173
Total	\$4,000

Item No. 2 Set Relays and Breaker

Trip Points on all Switchgear per Short
Circuit and Protective Device Coordination
Study dated March, 1979

\$2,304

Material	\$1,338
Labor	\$ 570
Overhead	\$ 286
Profit	\$ 110
Total	\$2,304

Item No. 3 - Conduit System Relocation Due to
Air Piping Revision at Aeration Tanks 1,2, & 3

\$7,754

Furnish all labor and materials to relocate existing and extend new conduit systems per drawing C.O. 26-2.

Material	\$1,254
Labor	\$5,489
Overhead	\$ 674
Profit	\$ 337
Total	\$7,754

CHANGE ORDER NO. 26

PAGE 2

Description of Change:AddDeduct

Item No. 4 - Relocation of Existing Signal
Cable to Location Outside of New Substation
Security Fence at Stormwater Station

\$3,885

Furnish all labor and materials to relocate the
 50-pair telephone cable per drawing C.O. 26-3

Material	\$1,402
Labor	\$1,976
Overhead	\$ 338
Profit	\$ 169
Total	\$3,885

Item No. 5 - Add Sump Pump in an Existing
Electric Manhole

\$2,313

Furnish and install a sump pump in existing
 electrical manhole #2 shown on contract drawing
 E-1. Furnish and install 120 VAC service to
 the pump from the chlorine building.

Material	\$ 395
Labor	\$1,836
Overhead	\$ 59
Profit	\$ 23
Total	\$2,313

This change order work shall be completed within
 the contract time specified by Change Order No. 24.

RECOMMENDED:

HOWARD NEEDLES TAMMEN & BERGENDOFF

BY

Title Proj. Mgr. Date 6/18/81

ACCEPTED:

HAGERMAN-SHAMBAUGH, Joint Bidders
 ACCEPTED FOR HAGERMAN CONSTRUCTION CORP.
 CONTRACTOR

By

Title Ch. Bd. Date 6-19-81

ACCEPTED FOR SHAMBAUGH & SON, INC.
 CONTRACTOR

By

Title Pres. Date 6-19-81

APPROVED:

CITY OF FORT WAYNE, INDIANA
 OWNER

BY

Betty R. Collins Chairman
Robert Anderson Member
 Member

Title BOARD OF PUBLIC WORKS

Date 6-18-81

CHANGE ORDER JUSTIFICATION

CHANGE ORDER NO. 26 - MISCELLANEOUS ADDITIONAL WORK

ITEM NO. 1 - STORM WATER DISCHARGE CHANNEL REINFORCEMENT

Two storm water discharge channels were constructed per Plan Sheets SW-1, 2 and 3. These channels were attached to the existing storm water station wet well wall. During the start-up of the new storm water pumps, the water pressure in the new enclosed channel caused the new channel walls and top decks to separate approximately 1/4-inch from the existing wet well wall. This separation produced an intolerable leakage of water. The joint was reinforced by the installation of a 3/16-inch neoprene band continuously fastened with a metal strip on both sides. This work has been already performed in order not to unnecessarily halt the orderly start-up and commissioning of the new storm water pumps. The channel has since been in service and does not leak.

ITEM NO. 2 - SET RELAYS AND BREAKER TRIP POINTS ON ALL SWITCHGEAR PER SHORT CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY DATED MARCH, 1979

The Owner separately contracted with Westinghouse to perform a short circuit and protective device coordination study. The study was completed in March, 1979. This item is work by the Contractor to implement the findings of the study by setting the switchgear relays and breaker trip points to the recommended settings.

ITEM NO. 3 - CONDUIT SYSTEM RELOCATION DUE TO AIR PIPING REVISION AT AERATION TANKS 1, 2, AND 3

Change Order No. 7, Item 1, revised the air piping into Aeration Tanks 1A, 2A, and 3A per the attached drawing. The cost for only the mechanical portion of these changes was included in Change Order No. 7. The electrical changes involved a new conduit system in the lower level pipe gallery to feed the three air flow control butterfly valves and the relocation of existing conduit and wiring that obstructed the pipe entrance into the box channel at Aeration Tank 1B. Prior to this change, the wiring for the valves would have been incorporated in the conduit system for the three sluice gates located on the upper level.

ITEM NO. 4 - RELOCATION OF EXISTING SIGNAL CABLE TO LOCATION OUTSIDE OF NEW SUBSTATION SECURITY FENCE AT STORM WATER STATION

Change Order No. 13, Item No. 3, relocated an existing 3-inch PVC water line from the location of the power utility's new electrical substation. A 50-pair telephone cable buried with the water line was also relocated along with the water line. The cost for only the mechanical portion for

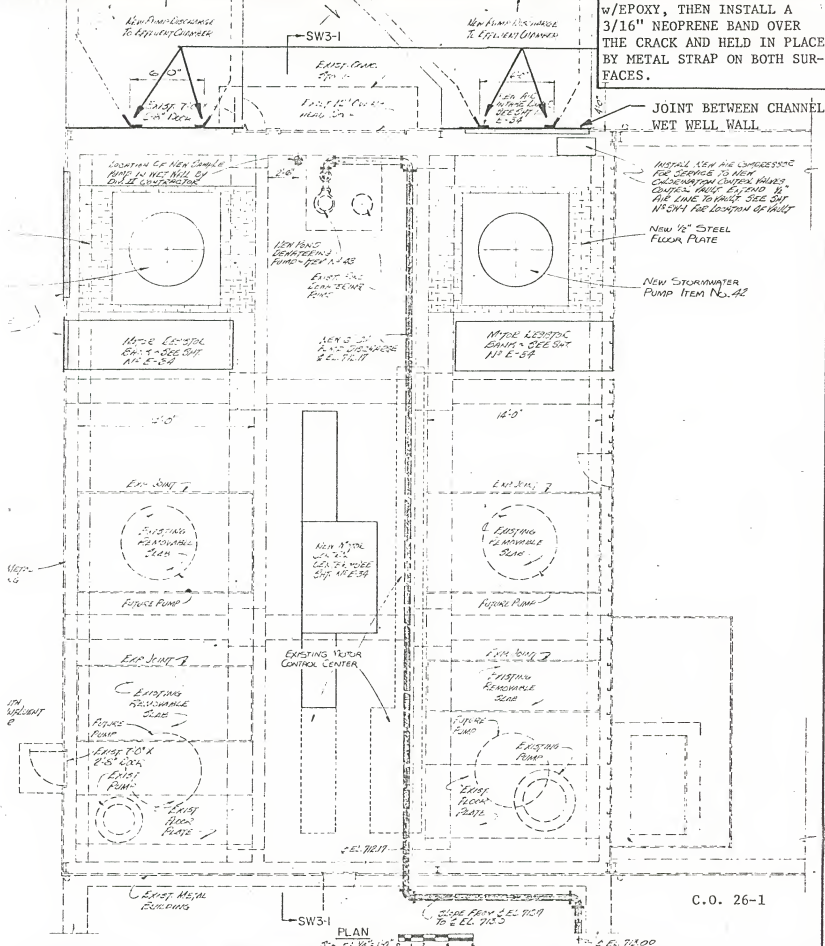
these changes was included in Change Order No. 13. The electrical work involved the installation of approximately 140 L.F. of 1-inch PVC conduit and 50-pair telephone cable.

ITEM NO. 5 - ADD SUMP PUMP IN AN
EXISTING ELECTRIC MANHOLE

Adjustments to the profile of the duct bank for the incoming electric service were required to account for the "as-built" 60-inch primary effluent pipe elevation at the intersection of the duct bank and the pipe. The gravity drainage from the existing electric manhole #2 (see Plan Sheet E-1) to the new electric manhole #1A (see Plan Sheet E-14) could not occur because the duct bank had to be constructed over the top of the 60-inch pipe, thus trapping surface drainage in the existing electric manhole #2. A new 120 VAC service and sump pump were installed in the existing electric manhole #2 to pump surface drainage out of the manhole.

SEAL JOINT ON INSIDE FACE
W/EPOXY, THEN INSTALL A
3/16" NEOPRENE BAND OVER
THE CRACK AND HELD IN PLACE
BY METAL STRAP ON BOTH SUR-
FACES.

JOINT BETWEEN CHANNEL
WET WELL WALL



PLAN
SCALE 1/8" = 1'-0"

C.O. 26-1

DESIGNED
DRAWN
CHECKED
APPROVED
DATE
6-12-78

HNTB

HENRY B. STEEG & ASSOCIATES

ENGINEERS
4432 NORTH PENNSYLVANIA STREET, INDIANAPOLIS, INDIANA 46201

JOB NO.

110325
1003-22-00

DIV. I

DATE
6-15-78

CITY OF FORT WAYNE, INDIANA
WATER QUALITY CONTROL PROJECT
WATER POLLUTION CONTROL PLANT ADDITIONS

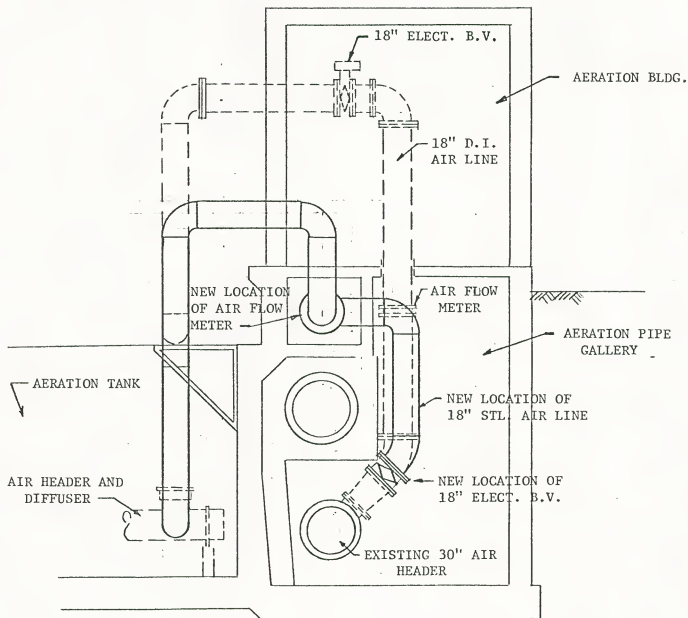
STORMWATER LIFT STATION
PLANS

SHEET NO.

SW-2

107 OF 153

SCALE
AS NOTED



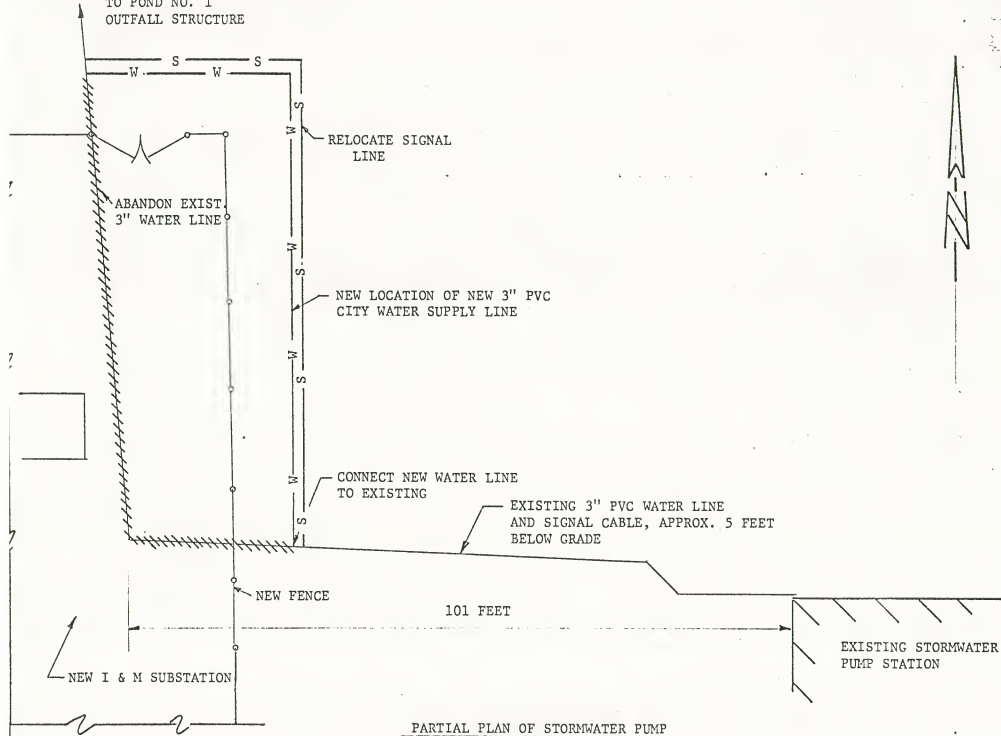
- - - - - ORIGINAL DESIGN
 _____ PROPOSED CHANGE

SECTION THRU EXISTING
 AERATION PIPE GALLERY
 (same as section EA3-1
 of contract drawings)

NOTE:

REFER TO CHANGE ORDER NO. 7
 DRAWING FOR PLAN AND SECTIONS
 OF PIPING CHANGES

TO POND NO. 1
OUTFALL STRUCTURE



PARTIAL PLAN OF STORMWATER PUMP
STATION SITE
(see sheet no. SW-1 of contract drawings)



THE CITY OF FORT WAYNE

CITY-COUNTY BUILDING • ONE MAIN STREET • FORT WAYNE, INDIANA 46802

board of public works

June 19, 1981

The Common Council
Fort Wayne, Indiana

SUBJECT: CHANGE ORDER #26, DIVISION 1, WATER POLLUTION CONTROL PLANT
ADDITIONS, FEDERAL GRANT NUMBER C-180538-01.

Gentlemen and Mrs. Schmidt:

Change Order #26 with Hagerman-Shambaugh Contractor in the amount of
\$20,256.00 has been approved by the Board of Public Works.

Said change order is required to provide the following:

- . Reinforcement for storm water discharge channels to prevent leakage. This work had to be accomplished in order not to unnecessarily halt the orderly start-up and commissioning of the new storm water pumps.
- . Work by the Contractor to set switchgear relays and breaker trip points to settings recommended by Westinghouse 1979 study.
- . To provide a new conduit system in the lower level pipe gallery and relocation of existing conduit and wiring.
- . Cost of the electrical work for relocation of an existing 3-inch PVC water line.
- . A 120 VAC service and sump pump will be installed in the existing electric manhole #2 to pump surface drainage out of the manhole.

In order to avoid any delay in construction, the Board respectfully request a "Prior Approval" of the Change Order.

TITLE OF ORDINANCE CHANGE ORDER #26, WATER POLLUTION CONTROL PLANT EXPANSION DIVISION I
FEDERAL GRANT NO. C-180538-01

DEPARTMENT REQUESTING ORDINANCE BOARD OF PUBLIC WORKS

SYNOPSIS OF ORDINANCE CHANGE ORDER #26, WPC PLANT EXPANSION DIVISION I, FEDERAL GRANT NO.

C-180538-01. HAGERMAN CONSTRUCTION CO. AND SHAMBAUGH & SONS, INC. - CONTRACTORS

SAID CHANGE ORDER IS REQUIRED TO PROVIDE: REINFORCEMENT FOR STORMWATER DISCHARGE CHANNELS:

SETTING OF SWITCHGEAR RELAYS; PROVIDE NEW CONDUIT SYSTEM IN LOWER PIPE GALLERY AND RELOCATION

OF EXISTING CONDUIT; COST OF ELECTRICAL WORK FOR RELOCATION OF EXISTING 3-INCH PVC WATER

LINE; A 120 VAC SERVICE AND SUMP PUMP.

PRIOR APPROVAL ACQUIRED AND ATTACHED.

EFFECT OF PASSAGE THE WPC PLANT EXPANSION WILL CONTINUE.

EFFECT OF NON-PASSAGE THE ABOVE DESCRIBED PROJECT CANNOT BE COMPLETED.

MONEY INVOLVED (DIRECT COSTS, EXPENDITURES, SAVINGS) \$20,256.00 TO BE PAID AS FOLLOWS:

75% EPA, 10% STATE, 15% CITY UTILITIES.

ASSIGNED TO COMMITTEE _____